CLAIMS

1. Method for the prognosis and/or diagnosis of diseases associated with at least one of the polymorphisms 8, 12, 13 in the NOD2/CARD15 gene by detection of at least one of the polymorphisms Nod2-SNP8, Nod2-SNP12, Nod2-SNP13 in the NOD2/CARD15 gene.

2. Method according to claim 1, wherein the diseases associated with at least one of the polymorphism Nod2-SNP8, Nod2-SNP12, Nod2-SNP13 in the NOD2/CARD15 gene are rejection responses occurring after transplantations, graft versus host diseases, host versus graft diseases, sepsis, lung diseases, monocyte dependant and/ or macrophage dependant diseases, lymphoma, leukemia and/ or diseases associated with a disorder of the NFkappaB signal transduction pathway.

3. Method according to one of the claims 1 or 2 comprising the following steps:
   a) providing a sample containing the NOD2/CARD15 gene or respectively NOD2/CARD15 nucleic acids,
   b) examination of the NOD2/CARD15 gene for the presence of at least one of the polymorphisms Nod2-SNP8, Nod2-SNP12, Nod2-SNP13.

4. Method according to one of the claims 1, 2 or 3 comprising the following steps:
   a) providing a sample containing the gene NOD2/CARD15,
   b) DNA and/ or RNA isolation from the sample,
   c) performing a PCR with specific primers for the NOD2/CARD15 gene,
   b) examination of the NOD2/CARD15 gene for the presence of at least one of the polymorphisms Nod2-SNP8, Nod2-SNP12, Nod2-SNP13.

5. Method for the prognosis regarding the likelihood of an incidence of a rejection response after transplantations according to one of the preceding claims comprising the following steps:

c) providing a sample of the donor containing the NOD2/CARD15 gene as well as a sample of the recipient containing the NOD2/CARD15 gene,

d) detection of the two samples for the presence of one or more of the polymorphisms Nod2-SNP8, Nod2-SNP12, Nod2-SNP13.

6. Oligonucleotide consisting of at least 10 nucleotides, wherein the oligonucleotide has a sequence which is complementary to the NOD2/CARD15 gene and contains the complementary nucleotide to the mutation SNP8 and/ or SNP 12 and/ or the nucleotide insertion SNP13.

7. Oligonucleotide according to claim 6, wherein the oligonucleotide furthermore contains a detection tag.

8. Microchip comprising at least one oligonucleotide according to claim 6 or 7.